

# 1次方程式

\_\_\_\_年 \_\_\_\_組 名前

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■ 次の方程式を解きなさい。

①  $12=6(1-2x)$

⑤  $-x-3(1+8x)=-23$

⑨  $7-x=-4-5(x+1)$

②  $4(6x-1)+3x=7(x+1)+4$

⑥  $3x+4(3x-1)=-9$

⑩  $x+38=-3(x-2)$

③  $-22=-8(3x-1)-x$

⑦  $-51=-3(3-4x)$

⑪  $-3x-5(6x-1)=5+6(6-x)$

④  $1+8(x+1)=-1$

⑧  $5(x-1)-2=-32$

⑫  $-3(3x-4)=3(2+7x)$

■ 次の方程式を解きなさい。

①  $12 = 6(1 - 2x)$

$$12 = 6 - 12x$$

$$12x = 6 - 12$$

$$12x = -6$$

$$2x = -1$$

$$x = -\frac{1}{2}$$

②  $4(6x - 1) + 3x = 7(x + 1) + 4$

$$27x - 4 = 7x + 11$$

$$27x - 7x = 11 + 4$$

$$20x = 15$$

$$4x = 3$$

$$x = \frac{3}{4}$$

③  $-22 = -8(3x - 1) - x$

$$-22 = -25x + 8$$

$$25x = 8 + 22$$

$$25x = 30$$

$$5x = 6$$

$$x = \frac{6}{5}$$

④  $1 + 8(x + 1) = -1$

$$8x + 9 = -1$$

$$8x = -1 - 9$$

$$8x = -10$$

$$4x = -5$$

$$x = -\frac{5}{4}$$

⑤  $-x - 3(1 + 8x) = -23$

$$-x - 3 - 24x = -23$$

$$-25x = -23 + 3$$

$$-25x = -20$$

$$5x = 4$$

$$x = \frac{4}{5}$$

⑥  $3x + 4(3x - 1) = -9$

$$15x - 4 = -9$$

$$15x = -9 + 4$$

$$15x = -5$$

$$3x = -1$$

$$x = -\frac{1}{3}$$

⑦  $-51 = -3(3 - 4x)$

$$-51 = -9 + 12x$$

$$-12x = -9 + 51$$

$$-12x = 42$$

$$2x = -7$$

$$x = -\frac{7}{2}$$

⑧  $5(x - 1) - 2 = -32$

$$5x - 5 - 2 = -32$$

$$5x = -32 + 7$$

$$5x = -25$$

$$x = -5$$

⑨  $7 - x = -4 - 5(x + 1)$

$$7 - x = -5x - 9$$

$$-x + 5x = -9 - 7$$

$$4x = -16$$

$$x = -4$$

⑩  $x + 38 = -3(x - 2)$

$$x + 38 = -3x + 6$$

$$x + 3x = 6 - 38$$

$$4x = -32$$

$$x = -8$$

⑪  $-3x - 5(6x - 1) = 5 + 6(6 - x)$

$$-33x + 5 = 41 - 6x$$

$$-33x + 6x = 41 - 5$$

$$-27x = 36$$

$$3x = -4$$

$$x = -\frac{4}{3}$$

⑫  $-3(3x - 4) = 3(2 + 7x)$

$$-9x + 12 = 6 + 21x$$

$$-9x - 21x = 6 - 12$$

$$-30x = -6$$

$$5x = 1$$

$$x = \frac{1}{5}$$